PATENT ABSTRACTS OF JAPAN

(11) Publication number: 58163403 A(43) Date of publication of application: 28.09.1983

(51) Int. CI **B01D 13/00**

B01D 53/22

(21) Application number: 57046870 (71) Applicant: NITTO ELECTRIC IND CO LTD

(22) Date of filing: **23.03.1982** (72) Inventor: **ABE MASAO**

ICHINOSE TAKASHI

(54) GAS SEPARATION MEMBRANE

(57) Abstract:

PURPOSE: To obtain a gas separation membrane excellent in oxygen permeability, by using a polyurethane/silicone copolymer of which the Si-O content is increased by introducing a polysiloxane structure into the main chain of polyurethane.

copolymer obtained by heating and reacting diisocyanate, α , ω -dichloropolydiorganosiloxane and glycol in an org. solvent is dissolved in a film forming liquid solvent to be cast and applied to an appropriate support and the solvent is evaporated from the formed film by heat treatment to obtain a homogenous membrane with a thickness of 0.05W30 μ m. By subjecting the surface of this membrane to sputter etching treatment, coefficient of gas permeation and coefficient of gas separation thereof are further enhanced.

CONSTITUTION: A substantially linear polyurethane/silicone COPYRIGHT: (C)1983,JPO&Japio